

### Amendments to the Claims

1 (currently amended). A method of forming a rigid polyurethane foam attached to a ~~substrate~~ an automotive part having an open cavity, comprising mixing a polyisocyanate component with a polyol component in the presence of at least one catalyst for the reaction of a polyol with a polyisocyanate and a blowing agent, dispensing the resulting mixture onto ~~a substrate~~ an automotive part defining an open cavity and subjecting the mixture to conditions sufficient to cause the mixture to cure to form a foam having a bulk density of 3 to 40 pounds per cubic foot (48-640 kg/m<sup>3</sup>) that is adherent to the ~~substrate~~ automotive part, wherein

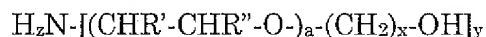
- (a) the polyisocyanate component contains at least one compound having a plurality of free isocyanate groups,
- (b) the polyol component contains isocyanate-reactive materials that have an average functionality of at least about 2.3 and includes at least one polyol and,
- (c) the volume ratio of the polyisocyanate component to the polyol component is no greater than 5:1 and no less than 1:5,
- (d) the ratio of isocyanate groups in the polyisocyanate component to the number of isocyanate-reactive groups in the polyol component is from about 0.7:1 to about 1.5:1;
- (e) the blowing agent is a carbamate of an alkanolamine; and
- (f) the cream time of the mixture is less than 2 seconds.

2 (original). The method of claim 1 wherein the carbamate is contained in a non-aqueous medium.

3 (original). The method of claim 2 wherein the carbamate is a reaction product of carbon dioxide and N-methyl-2-aminoethanol, N-ethyl-2-aminoethanol, 2-(2-N-methyl-aminoethyl)-1,2-ethanediol, N,N'-bis-( $\beta$ -hydroxyethyl)-ethylene diamine, N,N'-bis-( $\beta$ -hydroxypropyl)ethylene diamine, N,N'-bis-( $\beta$ -hydroxyethyl)-1,2-propylene diamine, N,N'-bis-( $\beta$ -hydroxypropyl)-1,3-propane diamine, N,N'-bis-( $\beta$ -hydroxyethyl)-1-methyl-2,4-diaminocyclohexane N,N'-bis-( $\beta$ -hydroxyethyl)-1-methyl-2,6-diaminocyclohexane, N,N'-bis-

( $\beta$ -hydroxypropyl)-p-xylylene diamine, N-( $\beta$ -hydroxyethyl)-N'-( $\beta$ -hydroxypropyl) ethylene diamine or tris-( $\beta$ -hydroxyethyl)-1,6,11 triaminoundecane.

4 (original). The method of claim 2 wherein the carbamate is the reaction product of carbon dioxide and an alkanolamine having the structure



where y is at least 1, z + y equals 3, R' and R'' are independently hydrogen, ethyl or methyl, x is a number from 1 to 4, and a is 1 or 2, provided that a times y is not greater than 2.

5 (original). The method of claim 4 wherein the alkanolamine is 2-(2-aminoethoxy)ethanol or 2-(2-(2-aminoethoxy)ethoxy)ethanol.

6 (original). The method of claim 1 wherein the isocyanate-terminated prepolymer component is a reaction product of an organic polyisocyanate and at least one polyol.

7 (original). The method of claim 1 wherein the isocyanate-terminated prepolymer is a reaction product of an organic polyisocyanate, at least one polyol and a hydroxyl-functional acrylate or methacrylate.

8 (original). The method of claim 6 wherein the polyisocyanate component includes at least one plasticizer.

9 (original). The method of claim 1 wherein at least one polyol in the polyol component contains a tertiary amine group.

10 (original). The method of claim 1 wherein the polyol component contains at least one amine-terminated polyether.

11 (original). The method of claim 1 wherein the blowing agent is blended into the polyol component before the polyol component and polyisocyanate component are mixed.

12 (original). The method of claim 1 wherein the catalyst is blended into the polyol component before the polyol component and polyisocyanate component are mixed.

13 (original). The method of claim 1 wherein the cream time is less than 1 second.

14 (canceled).

15 (currently amended). The method of ~~claim 14~~ claim 1 wherein the automotive part is assembled onto a vehicle or vehicle frame when the foam formulation is applied and foamed.

16 (original). The method of claim 15 wherein the automotive part is a pillar, rocker, sill, sail, cowl, plenum, seam, frame rail, vehicle sub assembly, hydro-formed part, cross car beam or engine cradle.